

In the Claims:

1. (Currently Amended) A method for manufacturing a fiber reinforced epoxy resin ~~products~~ product, comprising:

    providing a mold for the product;

    applying a release agent to inner surfaces of the mold;

    providing a layer of fiber mesh in the mold;

    casting an unhardened epoxy resin mixture onto the fiber mesh in the mold;

    vibrating the mold to remove air bubbles from the unhardened epoxy resin mixture;

pressing the epoxy resin mixture in the mold;

    hardening the epoxy resin mixture in the mold;

    releasing the hardened epoxy resin mixture from the mold; and

    curing the hardened epoxy resin mixture to form the product,

wherein the epoxy resin mixture includes epoxy resin, silica and reinforcing fibrous material, the reinforcing fibrous material being a material selected from the group consisting of glass fiber, carbon fiber, and aramid fiber or a mixture thereof.

2. (canceled)

3. (Currently Amended) The method of ~~claim 2~~ claim 1, wherein the epoxy resin mixture further includes cement.

4. (Currently Amended) The method of ~~claim 2~~ claim 1, wherein the epoxy resin mixture further includes an inorganic material having refractory and self-extinguishing characteristics.

5. (Original) The method of claim 4, wherein the inorganic material is selected from the group consisting of Aluminum hydroxide, antimony oxide and hydro bromide.

6. (Previously Presented) The method of claim 1, further comprising a step of impregnating said at least one layer of fiber mesh with epoxy resin.

7. (Canceled)

8. (Canceled)

9. (Previously Presented) A fiber reinforced epoxy resin product comprising:

a hardened epoxy resin mixture including epoxy resin, silica and a fibrous material, the fibrous material being a material selected from the group consisting of glass fiber, carbon fiber, and aramid fiber or a mixture thereof; and

at least three layers of fiber mesh arranged parallel to each other in the hardened epoxy resin mixture.

10. (Previously Presented) The method of claim 1, wherein the fiber mesh is a glass fiber.

11. (Previously Presented) The method of claim 1, wherein the fiber reinforced epoxy resin product is a fiber reinforced epoxy resin panel, and at least three layers of fiber meshes are provided.

12. (Canceled)

13. (Previously Presented) The method of claim 11, further comprising a step of impregnating said at least three layers of fiber meshes with epoxy resin.

14. (Previously Presented) A fiber reinforced epoxy resin panel, comprising:

a hardened epoxy resin mixture including epoxy resin, cement, silica and a fibrous material, the fibrous material being a material selected from the group consisting of glass fiber, carbon fiber, and aramid fiber or a mixture thereof; and

at least three layers of glass fiber roving cloth arranged parallel to each other in the hardened epoxy resin mixture.

15. (Previously Presented) The method of claim 1, wherein at least three layers of fiber meshes are provided in the mold, and the hardening step is performed under a temperature between about 60°C and about 80°C for about one to three hours, and the curing step is performed under a temperature between about 20°C and 35°C and a humidity between about 30% and about 60% for about 24 hours.

16. (Previously Presented) The method of claim 15, wherein the amount of the air bubbles in the unhardened epoxy resin mixture is maintained below about 4%.

17. (Previously Presented) The method of claim 15, wherein the epoxy resin mixture includes epoxy resin, silica, rubbles and reinforcing fibrous material, the reinforcing fibrous material being a material selected from the group consisting of glass fiber, carbon fiber, and aramid fiber or a mixture thereof.

18. (Original) A method of claim 17, wherein the epoxy resin mixture further includes an inorganic material having refractory and self-extinguishing characteristics.

19. (Previously Presented) A vehicle block structure comprising:

a body including a hardened epoxy resin mixture and glass fiber roving clothes, the hardened epoxy resin mixture containing epoxy resin, silica, rubbles and

reinforcing fibrous material.

20. (Original) A vehicle block structure of claim 19, further comprising an adhesive epoxy resin layer in order to fix the structure to a desired place.

21. (Previously Presented) The method of claim 1, wherein prior to the vibrating step, the fiber mesh providing step and the unhardened epoxy resin mixture casting step are repeated at least twice.

22. (Previously Presented) The method of claim 1, wherein the hardening step is performed at a temperature between about 20 ° and about 80 ° for more than 30 minutes, and the curing step is performed at a temperature between about 20 ° and 35 ° for about 24 hours to form the product.

23. (New) The method of claim 1, wherein the epoxy resin mixture includes epoxy resin of about 23.9 wt % to about 30.1 wt %, silica of about 69.3 wt % to about 74.5 wt % and reinforcing fibrous material of about 0.1 wt %.

24. (New) The product of claim 9, wherein the epoxy resin mixture includes epoxy resin of about 23.9 wt % to about 30.1 wt %, silica of about 69.3 wt % to about 74.5 wt % and reinforcing fibrous material of about 0.1 wt %.